

Caller ¹⁰⁰ FIG. 1 Voice Mail System ¹⁰¹

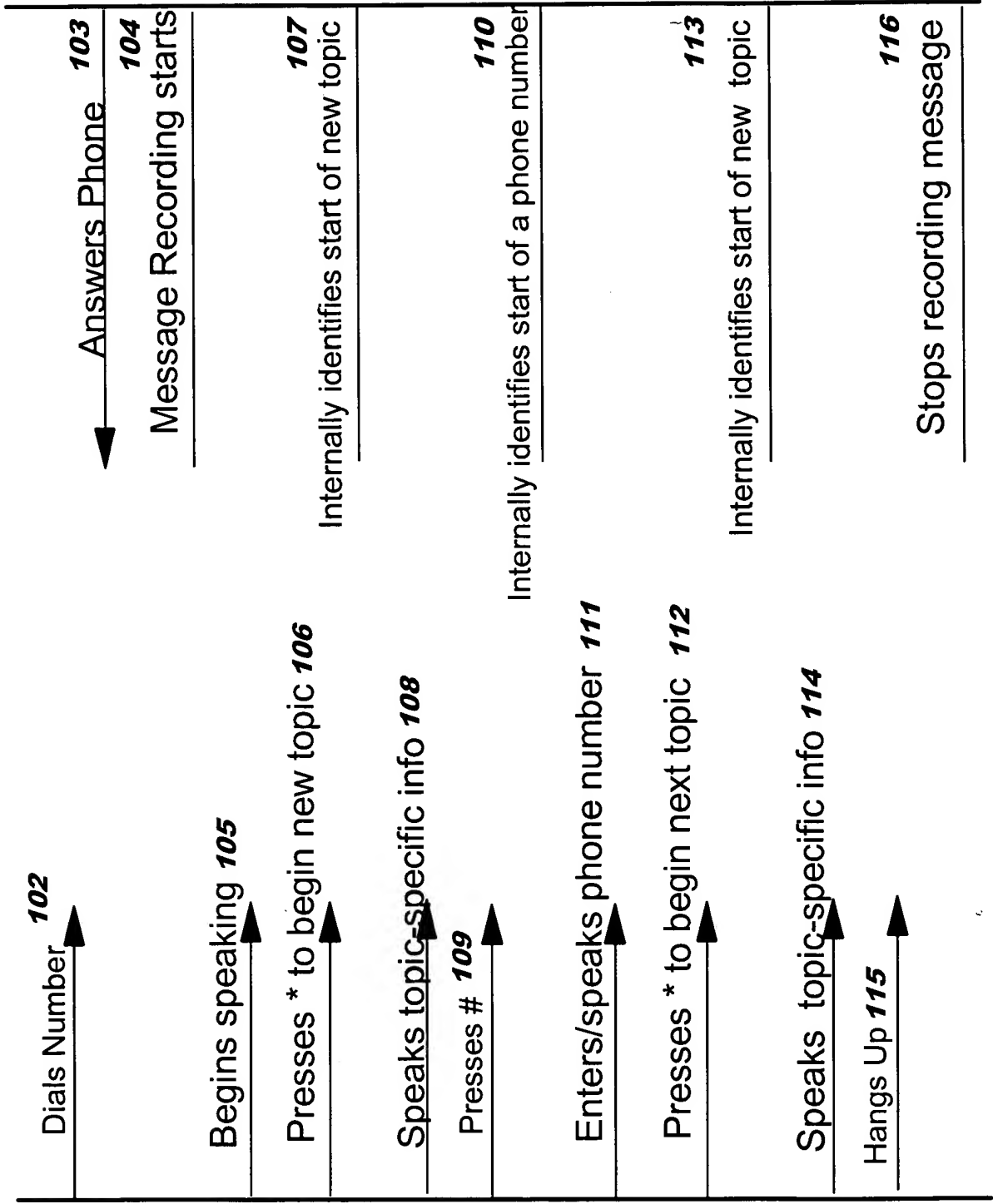


FIG. 2A

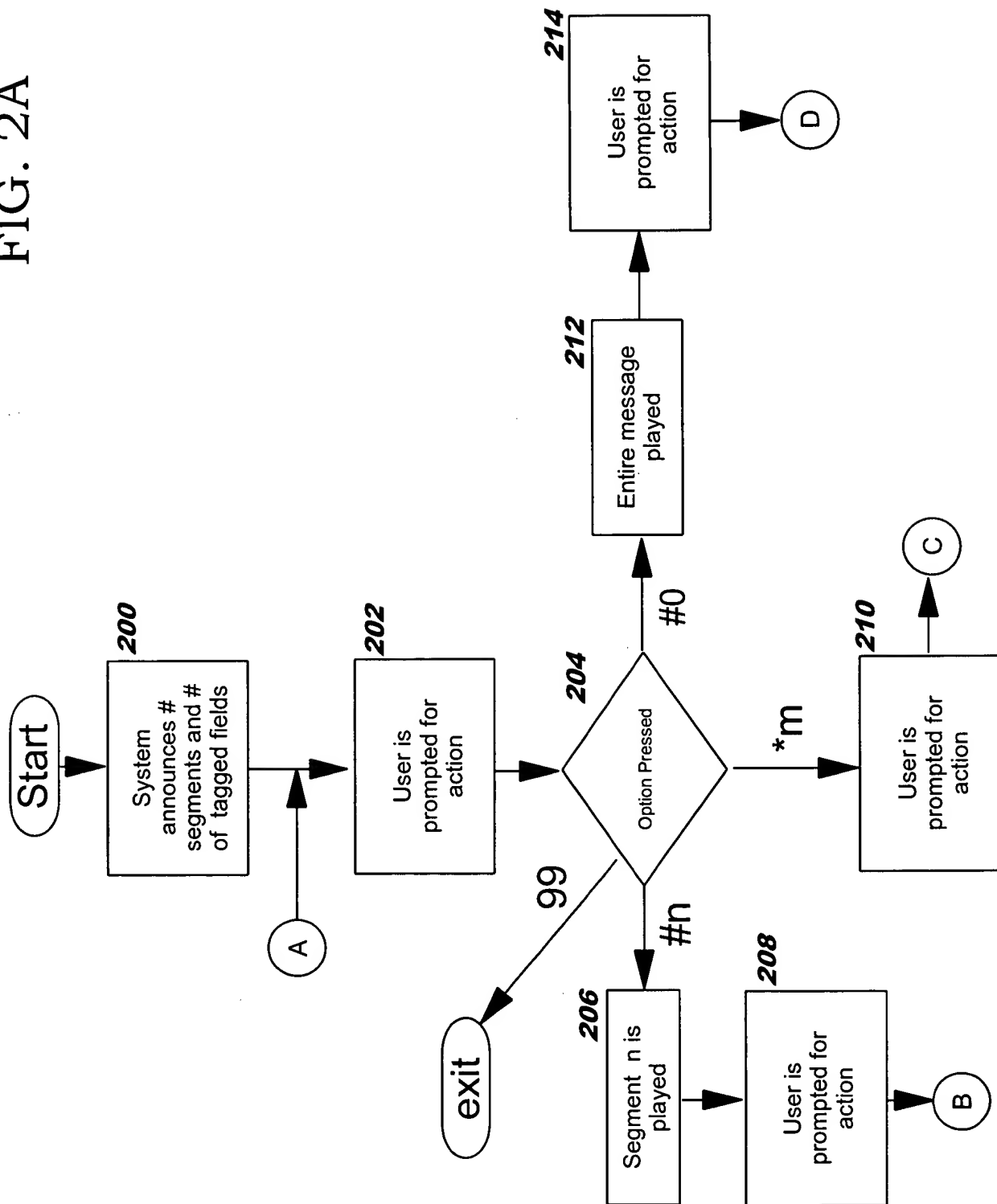


FIG. 2B

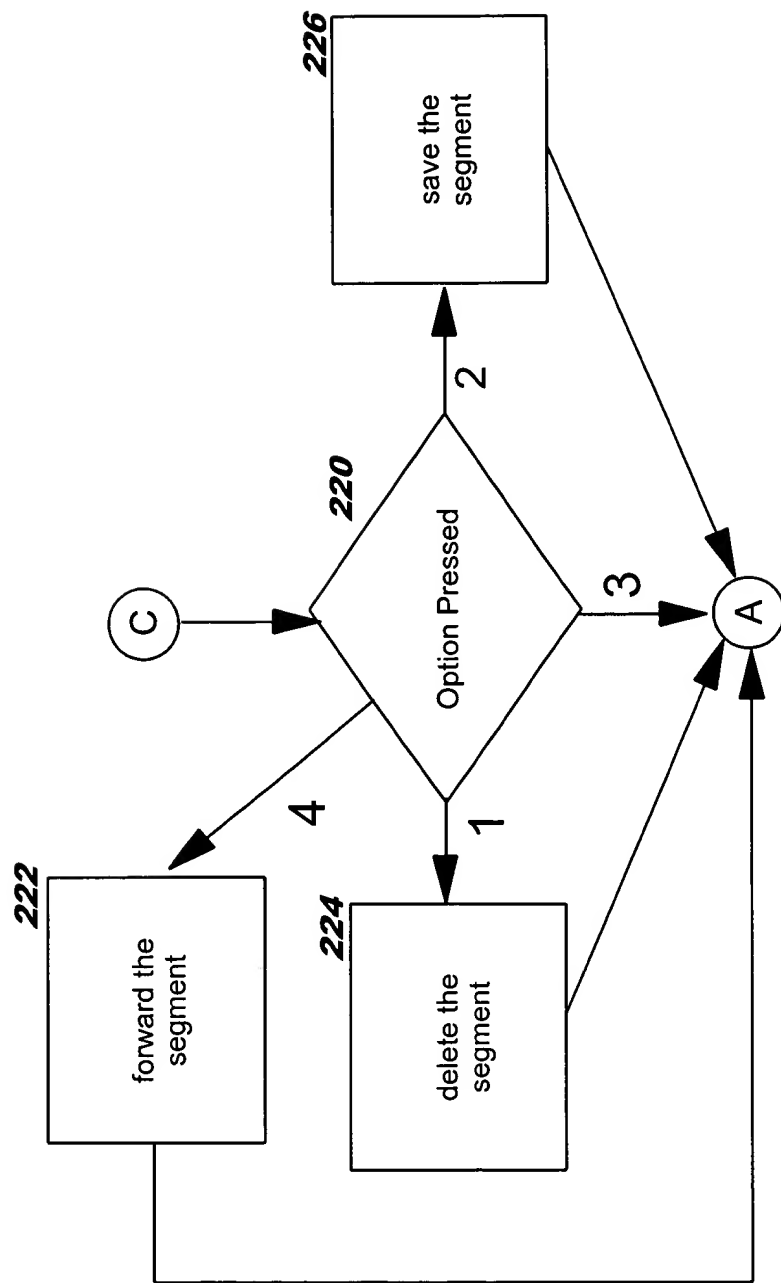


FIG. 2C

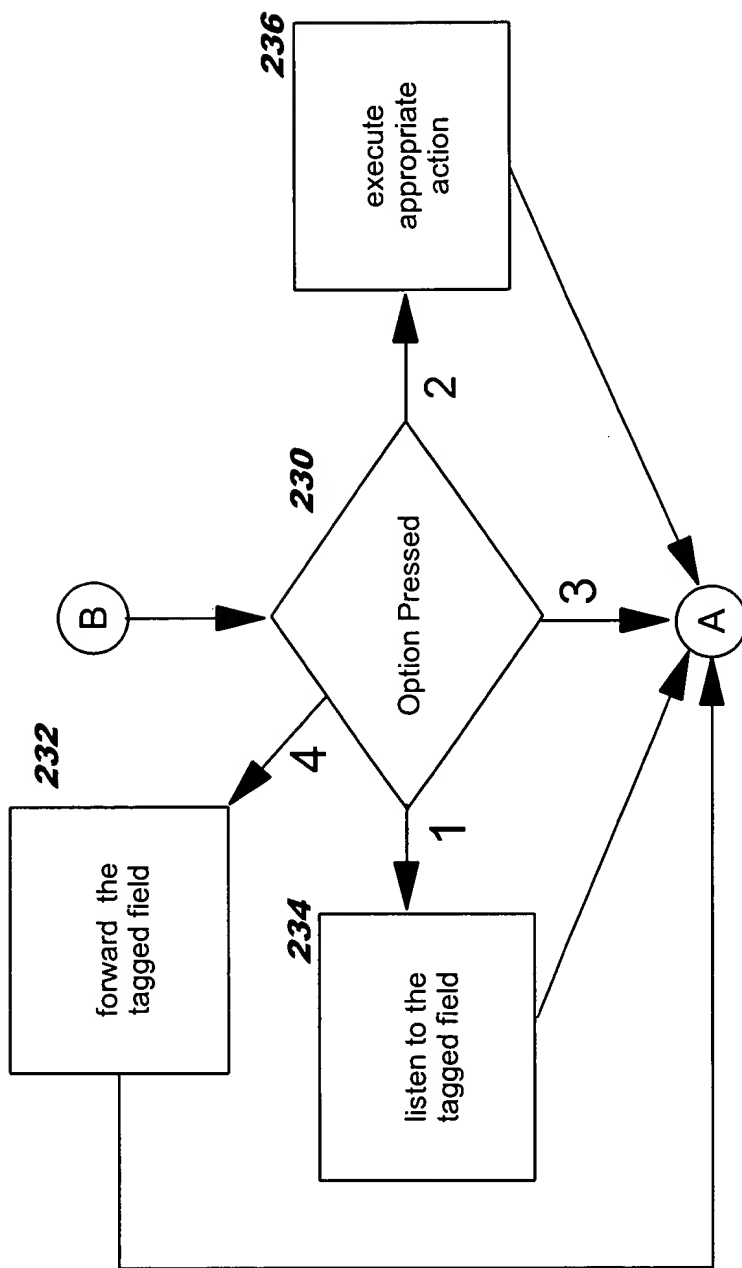


FIG. 2D

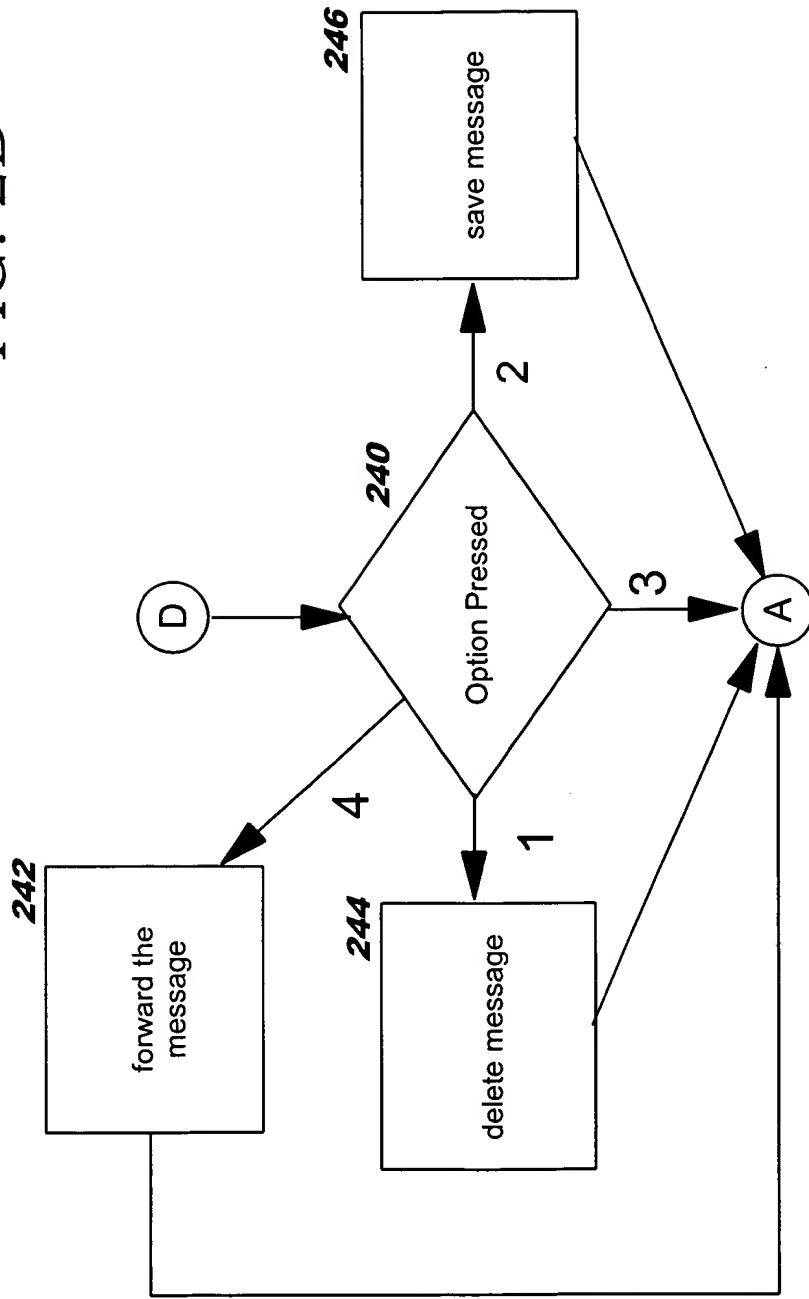


FIG. 3A

To listen to the entire message, press #0.
 To listen to segment n, press #n.
 To access options for tagged field m, press *m.
 To exit, press 99.

FIG. 3B

To delete this segment, press 1.
 To save this segment, press 2.
 To continue, press 3.
 To forward this segment, press 4.

FIG. 3C

To delete this message, press 1.
 To save this message, press 2.
 To continue, press 3.
 To forward this message, press 4.

FIG. 3D

To listen to a tagged field, press 1.
 To execute an action, press 2.
 To continue, press 3.
 To forward this tagged field, press 4.

FIG. 4

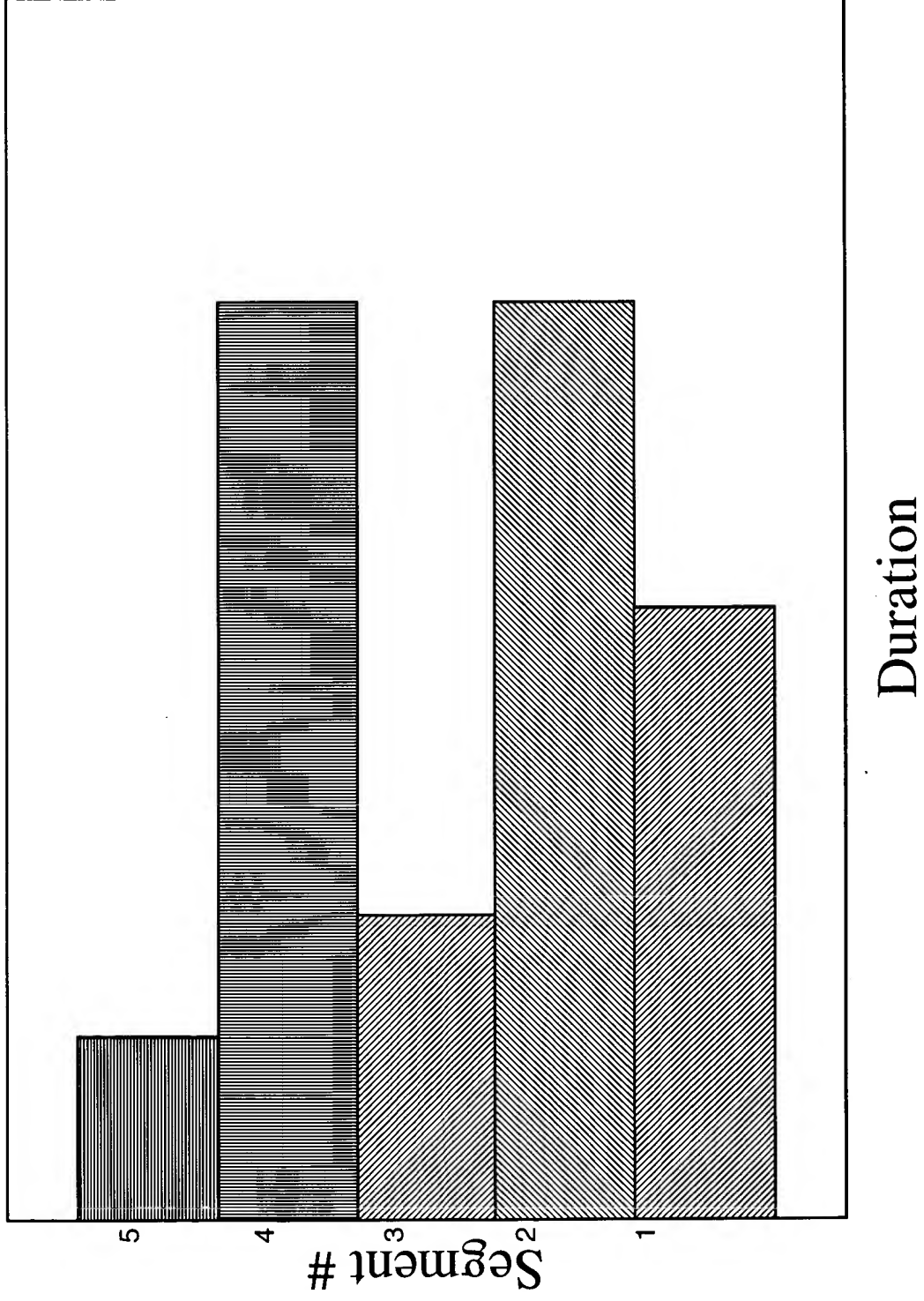


FIG. 5A

500

```
#define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */ 501
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */
```

Struct tagged_field **502**

```
{
    Int tagged_field_type; /* phone number, email addr, url, etc. */
    FILE *tagged_field_loc; /* location of data for this tagged field */
    /* this could alternately be stored in this structure. */
}
```

Struct vmail_segment **503**

```
{
    FILE *data_loc; /* location of data for this part of the voice mail */
    /* this could alternately be stored in this structure. */

    Struct tagged_field tagged_field_array[MAX_TAGGED_ENTRIES];
}
```

Struct vmail_segment vmail_array[MAX_VMAIL_SEGMENTS]; **504**

FIG. 5B

510

```
#define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */
```

Struct tagged field **512**

```

}

Int tagged_field_type;      /* phone number, email addr, url, etc. */
Int tagged_field_offset;   /* offset of the tagged field in data_loc */
Int tagged_field_length;   /* need to know where the end of the field is */

```

Struct vmail segment 513

```
FILE *data_loc; /* location of data for this segment of the voice mail */
                /* this could alternately be stored in this structure. */
```

```

}
Struct tagged_field tagged_field_array[MAX_TAGGED_ENTRIES];

```

Struct vmail_segment vmail_array[MAX_VMAIL_SEGMENTS],

FIG. 5C

520 FILE *vmail_msg; **521**

FIG. 5D

530 #define MAX_VMAIL_ELEMENTS 1000 /* arbitrary value */ **531**
FILE *vmail_array[MAX_VMAIL_ELEMENTS]; **532**

540

```
#define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */ 541
```

FIG. 5E

Struct tagged_field **542**

```
{
    Int tagged_field_type; /* phone number, email addr, url, etc. */
    FILE *tagged_field_loc; /* location of data for the tagged_field */
    /* this could alternately be stored in this structure. */
}
```

Struct vmail_segment **543**

```
{
    FILE *data_loc; /* location of data for this part of the voice mail */
    /* this could alternately be stored in this structure. */
}
```

Struct tagged_field tagged_field_array[MAX_TAGGED_ENTRIES];

}

Struct vmail_msg_struct **544**

```
{
    FILE *caller_name;
    FILE *caller_phone_number;
    Struct vmail_segment vmail_segment_array[MAX_VMAIL_SEGMENTS];
} vmail_msg;
```

FIG. 5F

```
550 #define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */ 551

Struct vmail_msg_struct 552
{
    FILE *caller_name;
    FILE *caller_phone_number;
    FILE *desired_callback_time;
    FILE *vmail_segment_array[MAX_VMAIL_SEGMENTS];
} vmail_msg;
```

FIG. 5G

```
560 #define MAX_VMAIL_ELEMENTS 1000 /* arbitrary value */ 561

Struct vmail_segment 562
{
    INT importance_level; /* importance level associated w/each segment - default */
    FILE *data_loc; /* may be set to 5 (average). */
    /* location of data for this element of the voice mail */
    /* this could alternately be stored in this structure. */
}

Struct vmail_segment *vmail_array[MAX_VMAIL_ELEMENTS]; 563
```